

# Protein Phosphatase 1, Catalytic Subunit Alpha Isoform Recombinant Protein | PPP1Ca recombinant protein

Recombinant Protein Phosphatase 1, Catalytic Subunit Alpha Isoform (PPP1Ca)

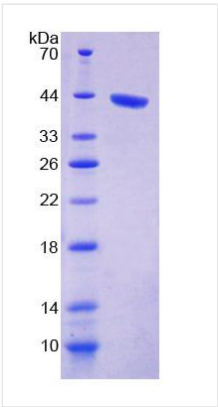
|                               |                       |                                               |
|-------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA145461</b> | HOST<br><b>E.coli</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-----------------------------------------------|

## PRODUCT SYNONYMS

Protein Phosphatase 1; Catalytic Subunit Alpha Isoform; Recombinant Protein Phosphatase 1; Catalytic Subunit Alpha Isoform (PPP1Ca); PPP1C-A; PPP1-CA; PP-1A; PPP1A; Serine/Threonine-Protein Phosphatase PP1-Alpha Catalytic Subunit; PPP1Ca recombinant protein

## PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                                    | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format                                            | 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration                                          | Original Concentration: 200ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence                                               | SDSEKLNLDLS IIGRLLEVQG SRPGKNVQLT ENEIRGLCLK SREIFLSQPI LLELEAPLKI CGDIHGQYYD<br>LLRLFYGGF PPESNYLFLG DYVDRGKQSL ETICLLLAYK IKYPENFFLL RGNHECASIN RIYGFYDECK<br>RRYNIKLWKT FTDCFNCLPI AAIVDEKIFC CHGGLSPDLQ SMEQIRRMIR PTDVDPDQGLL CDLLWSDPDK<br>DVQGWGENDR GVSFTFGAEV VAKFLHKHDL DLICRAHQVV EDGYEFFAKR QLVTLFSAPN YCGEFDNAGA<br>MMSVDETLMC SFQILKPADK NKGKYGQFSG LNPGGRPITP PRNSAKAKK                                                                                                                          |
| Applicable Applications for PPP1Ca recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Organism Species                                       | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source                                                 | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Residues                                               | Ser2~Lys330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tags                                                   | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Subcellular Location                                   | Nucleus, Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Traits                                                 | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Predicted isoelectric point                            | 5.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Usage                                                  | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                                | Storage:<br>Avoid repeated freeze/thaw cycles.<br>Store at 2-8 degree C for one month.<br>Aliquot and store at -80 degree C for 12 months.<br><br>Stability Test:<br>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |



SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 957950011                                                                                                          |
| NCBI GeneID                      | 5530                                                                                                               |
| Molecular Weight                 | Predicted Molecular Mass: 41.1kDa<br>Accurate Molecular Mass: 41kDa as determined by SDS-PAGE reducing conditions. |
| NCBI Official Full Name          | protein phosphatase 3 catalytic subunit alpha isozyme isoform 1, partial                                           |
| NCBI Official Synonym Full Names | protein phosphatase 3, catalytic subunit, alpha isozyme                                                            |
| NCBI Official Symbol             | PPP3CA                                                                                                             |
| NCBI Official Synonym Symbols    | CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1                                                                             |
| NCBI Protein Information         | serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform                                            |
| UniProt Protein Name             | Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform                                            |
| UniProt Gene Name                | PPP3CA                                                                                                             |
| UniProt Synonym Gene Names       | CALNA; CNA                                                                                                         |
| UniProt Entry Name               | PP2BA_HUMAN                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/ppp3ca-recombinant-protein-e-coli-wb-western-blot-sds-page-immunogen-positive-control/145461>